JVC DVD PLAYER XV-N222S

INSTRUCTIONS

GNT0063-001A[US]

EN 0305MOC-MW-SC

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Region code of DVD VIDEO

This player can play back DVD VIDEO discs whose region code numbers include "1."
Examples of playable DVD VIDEO discs:



The player's region code is printed on the rear of the player

Note of Color system format

This player accommodates the NTSC system, and also can play back discs recorded with PAL system. (PAL video signals are converted to an NTSC signal and output.)

Supplied accessories

If anything is missing, consult your dealer immediately.
- Audio/video cable (Yellow/White/Red) (x 1)
- Remote control (x 1)
- R6(SUM-3)/AA(15F) battery (x 2)

- Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.
- "DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.
- This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

For customer use

Enter below the Model No. and Serial No. which are located either on the rear, bottom or side of the cabinet. Retain this information for future reference.

Model No.

Serial No.:

Warnings, Cautions and Others

CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK. DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

For U.S.A.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.
These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
Reorient or relocate the receiving antenna.
Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
Consult the dealer or an experienced radio/TV technician for help.

For Canada

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT

For Canada

THIS DIGITAL APPARATUS DOES NOT EXCEED THE CLASS B LIMITS FOR RADIO NOISE EMISSIONS FORM DIGITAL APPARATUS AS SET OUT IN THE INTERFERENCE-CAUSING EQUIPMENT STANDARD ENTITLED "DIGITAL APPARATUS," ICES-003 OF THE DEPARTMENT OF COMMUNICATIONS.

CAUTION
To reduce the risk of electrical shocks, fire, etc.:
1. Do not remove screws, covers or cabinet.
2. Do not expose this appliance to rain or moisture.

Caution — ⏻/I STANDBY/ON button!
Disconnect the mains plug to shut the power off completely. The ⏻/I STANDBY/ON button in any position does not disconnect the mains line. The power can be remote controlled.

CAUTION
THIS PRODUCT USES A LASER SYSTEM.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

CLASS 1 LASER PRODUCT
REPRODUCTION OF LABELS
WARNING LABEL INSIDE OF THE UNIT

CAUTION - VISIBLE OR INVISIBLE LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM.
ATTENTION - RAYONNEMENT LASER VISIBLE OU INVISIBLE EN CAS D'OUVERTURE. NE PAS REGARDER DANS LE FAISCEAU. LH41077-002A

CAUTION:
- Do not block the ventilation openings or holes. (If the ventilation openings or holes are blocked by a newspaper or cloth, etc., the heat may not be able to get out.)
- Do not place any naked flame sources, such as lighted candles, on the apparatus.
- When discarding batteries, environmental problems must be considered and local rules or laws governing the disposal of these batteries must be followed strictly.
- Do not expose this apparatus to rain, moisture, dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

Precautions

Notes on the power cord
- When you are away on travel or otherwise for an extended period of time, remove the plug from the wall outlet. A small amount of power (1.0 W) is always consumed while the power cord is connected to the wall outlet.
- When unplugging the player from the wall outlet, always pull the plug, not the power cord.
- Do not handle the power cord with wet hands!
- Disconnect the power cord before cleaning the player or moving the player.
- Do not alter, twist or pull the power cord, or put anything heavy on it, which may cause fire, electric shock, or other accidents.
- If the cord is damaged, consult a dealer and have the power cord replaced with a new one.

Avoid moisture, water, dust, and high temperatures
- Do not place the player in moist or dusty places.
- If water gets inside the player, turn off the power and remove the plug from the wall outlet, then consult your dealer. Using the player in this state may cause a fire or electrical shock.
- Do not expose the player to direct sunlight or place it near a heating device.

Notes on installation
- Select a place which is level, dry and neither too hot nor too cold between 5˚C and 35˚C (41˚F and 95˚F).
- Leave sufficient distance between the player and the TV.
- Do not install the player in a place subject to vibrations.
- Do not put heavy objects on the player.

To prevent malfunction of the player
- There are no user-serviceable parts inside. If anything goes wrong, unplug the power cord and consult your dealer.
- Do not insert any metallic objects, such as wires, hairpins, coins, etc. into the player.
- Do not block the vents. Blocking the vents may damage the player.

To clean the cabinet
- Use a soft cloth. Follow the relevant instructions on the use of chemically-coated cloths.
- Do not use benzene, thinner or other organic solvents and disinfectants. These may cause deformation or discoloring.

Playable discs

- **DVD VIDEO, Audio CD, Video CD, SVCD**

- DVD-R/-RW written in the DVD VIDEO format
- CD-R/RW written in the SVCD, Video CD or Audio CD format
- CD-R/RW written in JPEG in accordance with the "ISO 9660" format

Supported Digital audio formats:
Linear PCM, Dolby Digital, DTS (Digital Theater Systems)*

NOTES
- If a disc gets dirty, scratched or warped, or due to the disc characteristics or recording conditions, the player may not be able to play back such discs.
- The player can play back audio signals recorded in MIX-MODE CD, CD-G, CD-EXTRA and CD TEXT.
- With some discs, operations may not be possible.

* To play back DTS-encoded DVD VIDEO or DTS-encoded Audio CD discs correctly, connect the player to an amplifier with a built-in DTS decoder. Otherwise, playback sound will be distorted.

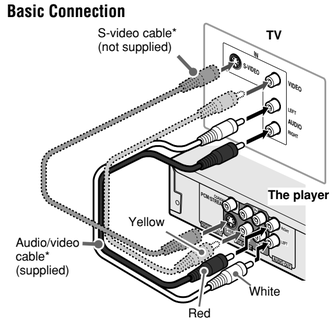
Unplayable discs
If you try to play back discs listed below, noise may be generated and causes damage to speakers.
- DVD-RW written in the VR format
- DVD-ROM, DVD-RAM, DVD AUDIO, CD-ROM, PHOTO CD, SACD
- Unfinalized discs
- Discs of irregular shape or discs with tape, seals or paste on either the label side or playback side. Playing back these discs may damage the player.

The Non-DVD side of a "DualDisc" does not comply with the "Compact Disc Digital Audio" standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.

Connections

Before making connections:
- **Do not connect the AC power cord until all other connections have been made.**
- **Connect VIDEO OUT of the player directly to the video input of your TV. Connecting VIDEO OUT of the player to a TV via a VCR/an integrated TV/Video system may cause a monitor problem.**

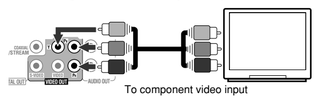
Basic Connection



NOTES
- If your TV has a monaural audio input instead of stereo, use an optional audio cable which converts stereo audio output to monaural.
- If your TV is a HDTV or HD-ready TV, you can connect with component (Y, PB, PR) jacks. By connecting with component (Y, PB, PR) jacks, you can select the progressive scanning mode which provides the best picture quality.

* The S-VIDEO jack and component (Y, PB, PR) jacks cannot be used at the same time. When using the S-VIDEO jack, do not connect the component (Y, PB, PR) jacks with the player.

Connecting to a TV with component jacks



To component video input

To switch the scanning mode between Progressive and Interlace, press and hold VFP-I/P on the remote control for a few seconds.

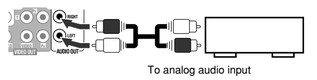
NOTES
- Connect "Y" to "Y," "PB" to "PB(CB)," "PR" to "PR(CR)" correctly.
- When using component (Y, PB, PR) jacks, do not connect S-VIDEO jack with the player.

About the scanning mode indicator

[PICTURE SOURCE] of the PICTURE menu	Source type of DVD VIDEO	
	Film source	Video source
AUTO	[DDP]	[P]
FILM	[DDP]	[DDP]
VIDEO(NORMAL)/ (ACTIVE)	[P]	[P]

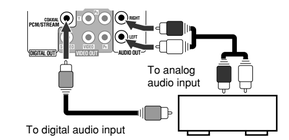
NOTE
Some progressive TV and High-Definition TV sets are not fully compatible with the player. To check the compatibility of your TV, contact your local JVC customer service center.

Connecting to a stereo audio amplifier (receiver)



To analog audio input

Connecting to a digital audio device
To enjoy high-quality surround sound, connect the DIGITAL OUT (COAXIAL) jack to a Dolby Digital or DTS decoder or an amplifier with a built-in decoder.



NOTES
- Depending on the disc, no signal may be outputted from the DIGITAL OUT. Make an analog connection in this case.
- Set [DIGITAL AUDIO OUTPUT] in the [AUDIO] preference display correctly according to the connected digital audio equipment. (See "DIGITAL AUDIO OUTPUT" in "Initial settings.")

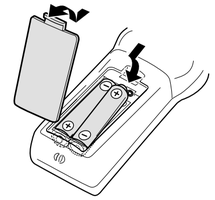
Turning on the power

Inserting the AC power plug

After all other connections have been made, insert the AC power plug to the wall outlet firmly.

Installing the batteries in the remote control

Open the compartment cover, and place the two supplied R6(SUM-3)/AA(15F) batteries in the remote control according to the polarity markings ("+" and "–") inside the compartment. Then replace the cover.



The batteries will last about six months with normal use. If the functions of the remote control become erratic, replace the batteries.

Precautions of the safe use of batteries
Observe the following precautions for the safe use of batteries. If they are used improperly their lives will be shortened, they may burst or their contents may leak.
- Remove the batteries from the remote control if it is not going to be used for a long period of time.
- Remove dead batteries and dispose of them properly.
- Never leave dead batteries lying around, take them apart, mix them with other refuse, or throw them into an incinerator.
- Never touch liquid that has leaked out of a battery.
- Do not mix new and old batteries, or batteries of different types, when placing them.

Turning on and off the player

Press ⏻/I STANDBY/ON.

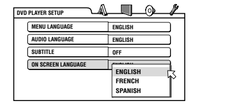
Initial setup

When you turn on the player for the first time after purchase, the following message appears on the TV screen.

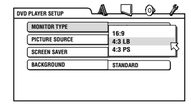
EXECUTE DVD PLAYER SETUP? - BASIC PICTURE/AUDIO SETTING.
YES - PRESS ENTER NO - PRESS CANCEL

Before enjoying this player, make the initial settings as follows:

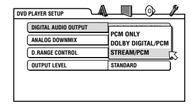
1 **Press ENTER.**



2 **Press ▲/▼ to select the on-screen language for the preference displays, etc., then press ENTER.**



3 **Press ▲/▼ to select the monitor type, then press ENTER.**
- For a normal (conventional) TV, select **"4:3 LB"** or **"4:3 PS."** (See "MONITOR TYPE" in "Initial settings.")
- For a wide-screen TV, select **"16:9."**



4 **Press ▲/▼ to select a desired digital output signal type, then press ENTER.**
Set this item correctly according to the logo on your receiver or decoder.
(If you do not connect the player to such a device, press ENTER to finish the setting.)
- Receiver/decoder bearing Dolby Digital logo and no DTS, select **"DOLBY DIGITAL/PCM."**
- Receiver/decoder bearing both Dolby Digital and DTS logos, select **"STREAM/PCM."**
- Receiver/decoder bearing neither Dolby Digital nor DTS logo, or digital recorder, select **"PCM ONLY."**

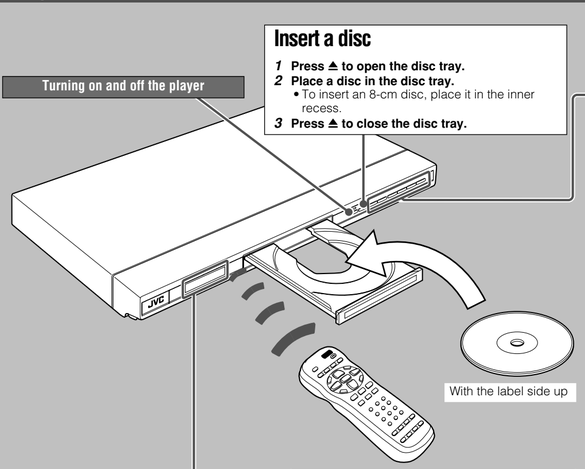
To bring up the DVD PLAYER SETUP display later
Press SET UP for a few seconds until the DVD PLAYER SETUP display appears.

Basic Operations

Insert a disc

1 **Press ⏏ to open the disc tray.**
2 **Place a disc in the disc tray.**
- To insert an 8-cm disc, place it in the inner recess.

3 **Press ⏏ to close the disc tray.**





- Each indicator lights up when corresponding function/mode is activated, or corresponding information is on the main display.

About On-screen guide icons

: Playback.
: Pause.
/ : Slow-motion playback with the current speed.
/ : Fast forward/backward playback with the current speed.
: At the beginning of a scene containing multi-angle views.
: At the beginning of a scene containing multi-audio sounds.
: At the beginning of a scene containing multi-subtitles.

You can change the setting so that the on-screen guide icons do not appear on the TV screen. (See "ON SCREEN GUIDE" in "Initial settings.")

Turning on and off the player

Open/close the disc tray

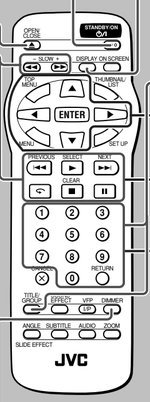
Basic playback

Buttons	To do
► *	Start/resume normal Playback
■	Stop • When RESUME is ON or DISC RESUME, this player memorizes the position on the disc where you interrupted playback. – To resume playback, press ►. – To stop playback completely, press ■ again.
II *	Pause • Each time you press II on the remote control, the still picture advances to the next frame.
►►/◄◄	Fast forward/backward (While paused) Slow-motion playback • Each time you press the button, the playback speed changes.
►►I/I◄◄	Skip chapter/track • If you press and hold the button during playback, playback is advanced/reversed at 5 times normal speed.
VARI-PLAY (variable playback)	(For DVD Video) The disc is played back at about 1.2 or 1.5 times (FAST)/0.8 or 0.6 times (SLOW) normal speed. The sound is not muted, and the subtitle does not go off (except for DTS). (For SVCD/VCD) The disc is played back at about 2 times (FAST)/0.5 times (SLOW) normal speed.
	(Only for DVD Video) The playback position moves back 10 seconds before the current position (only within the same title).

* ►II on the player starts/pauses playback.

Changing the display brightness

Press **DIMMER** to change the brightness of the display window.



Changing the display window contents

Each time you press **DISPLAY**, the display window contents changes.

Locating the beginning of a scene or song

You can select a title/chapter/track directly and start playback.
For DVD Video:
(While stopped) select title.
(While playing back) select chapter.
For SVCD/VCD/CD:
Select track.

To select 5: press 5.
To select 23: press 2, then 3.
To select 40: press 4, then 0.
- If you press TITLE/GROUP before entering the number, you can select the title instead of the chapter.

Using the disc menu

You can operate a disc—SVCD/VCD with Playback Control* (PBC)—using the disc menu shown on the TV screen.

* A method of controlling disc play for SVCD/VCD by using the disc menu.

■ For DVD

1 **Press TOP MENU or MENU to show the disc menu.**
2 **Press ▲/▼/◄/► to select a desired item, then press ENTER or ► (SELECT).**
- With some discs, you can also select items by entering the number using the numeric buttons.

■ For SVCD/VCD

1 **While stopped, press TOP MENU or ► (SELECT) to show the menu.**
2 **Press the numeric buttons to select a desired item.**
To select 5: press 5.
To select 23: press 2, then 3.
To select 40: press 4, then 0.
- To move to the next or previous page of the current menu, press ►►I or I◄◄.
- To return to the previous menu, press RETURN.

To play back without PBC
While stopped, press the numeric buttons instead of ► (SELECT) to start playback.

To reactivate PBC
- Press TOP MENU or MENU.
- Press ■ to stop playback, then ► (SELECT).

Advanced Operations

Changing the language, sound and scene angle

1 **Press the button.**
2 **Press the button repeatedly or ▲/▼ to select the desired item.**
3 **Press ENTER to finish the setting.**

Buttons	To do
AUDIO	For DVD Video: select audio languages. For SVCD/VCD: select the audio channel.
SUBTITLE	select the subtitle.
ANGLE	select the view-angle.

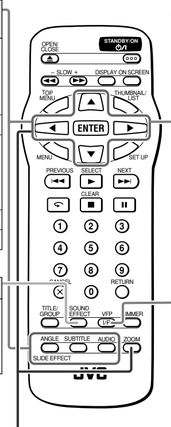
Changing the Sound Field

Each time you press **SOUND EFFECT**, the Sound Effect mode changes.
- As the value becomes bigger, the Sound Effect works stronger.

Zooming the picture

Each time you press **ZOOM**, the magnification changes.
- You can use ▲/▼/◄/► button to move the zoomed position.

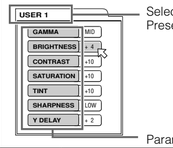
To return to the normal playback, select the normal size by pressing **ZOOM** repeatedly.



Changing the picture tone (VFP)

The VFP (Video Fine Processor) function allows you to adjust the picture character according to the type of programming, picture tone or personal preferences.

1 **Press VFP-I/P.**
2 **Press ◄/► to select the desired preset.**



NORMAL	For watching TV in a general room.
CINEMA	For watching a movie software in a room with suppressed light.
USER1 USER2	You can adjust parameters that affect the picture character and store the settings as a user preset. See below.

To adjust the picture tone
1 **Select "USER1" or "USER2."**
2 **Press ▲/▼ to select a parameter, then press ENTER.**

GAMMA	Adjust this if the neutral color is bright or dark. The brightness of dark and bright portion is maintained (LOW/MID/HIGH).
BRIGHTNESS	Adjust this if the picture is bright or dark on the whole (–16 (darkest) to +16 (brightest)).
CONTRAST	Adjust this if the far and near position is unnatural (–12 to +12).
SATURATION	Adjust this if the picture is whitish or blackish (–16 (blackest) to +16 (whitest)).
TINT	Adjust this if the appearance of flesh tone is unnatural (–16 to +16).
SHARPNESS	Adjust this if the picture is indistinct (LOW/HIGH).
Y DELAY	Adjust this if the picture looks separately/ overlapped (–2 to +2).

3 **Press ▲/▼ to adjust the parameter, then press ENTER.**
4 **Repeat step 2 and 3 to adjust other parameters.**
5 **Press VFP-I/P to finish the setting.**

Menu bar functions

You can use various functions from the menu bar.

To bring up the menu bar

When a disc is inserted, press ON SCREEN twice.
A menu bar for the type of disc inserted will appear under the status bar.
Ex.: Menu bar for DVD VIDEO



To dismiss the menu bar and the status bar, press ON SCREEN.

Basic operation procedure

1 **Press ◄/► to select the icon you want to work with.**
2 **Press ENTER.**
After pressing ENTER:
(1) When a pull-down menu appears, press ▲/▼ to select the setting you want, then press ENTER.
(2) When a number-entry box appears, use the numeric buttons to enter the number you want, then press ENTER.
(3) When changing TIME setting, press ENTER repeatedly to select the setting you want.

NOTES
- The selected item on the menu bar is shown in green.
- The available functions differ depending on the player status. Refer to the explanation below to check when you can use a certain function.

Menu bar functions

TIME selects the time mode shown in the display window and the status bar.
- TOTAL: Elapsed time of current title (DVD) or a disc (CD/VCD/SVCD)
- T.REM: Remaining time of current title (DVD) or a disc (CD/VCD/SVCD) (Except for DVD: while stopped, disc total time)
- TIME: Elapsed time of current chapter (DVD) or track (CD/VCD/SVCD)
- REM: Remaining time of current chapter (DVD) or track (CD/VCD/SVCD) (while stopped, current track total time)

selects repeat mode.
DVD: During playback
CD: In any condition
VCD/SVCD: In any condition except PBC playback
- CHAPTER: Current chapter repeat (DVD)
- TITLE: Current title repeat (DVD)
- TRACK: Current track repeat (CD/VCD/SVCD)
- ALL: All track repeat (CD/VCD/SVCD)
- A-B: A-B repeat (During playback). After selecting A-B, press ENTER at the beginning point of repeat, then press ENTER again at the end point.
- OFF: Repeat mode deactivated. Select this to quit repeat mode.

specifies beginning point of a title (DVD) or a disc (CD/VCD/SVCD) by the time.
DVD: In any condition
CD: In any condition except program or random playback
VCD/SVCD: In any condition except PBC or program or random playback

CHAP. specifies a chapter to play back from (DVD only).

selects the audio language (DVD), sound track (DVD), or audio channel (VCD/SVCD) during playback.

selects the subtitle language (DVD) or subtitle (SVCD) during playback.

selects a desired scene angle in a multi-angle part (DVD only).

PROG. specifies the playback order of tracks while stopped (unavailable for DVD). You can program up to 99 tracks.

1. After selecting PROG. icon, press the numeric buttons to specify tracks in the desired order.
 - To correct the program, press ▲/▼ to move to the track to be corrected, then press CANCEL. The track is erased and the subsequent programmed tracks move up.
 - Pressing ■ clears all the programmed tracks.
2. Press ►(SELECT) to start program playback.
 - During program playback, you cannot edit the program contents.
 - To exit the program mode, press ON SCREEN after clearing the program.

RND. activates random playback while stopped (unavailable for DVD).
After selecting RND. icon, press ENTER.
The player starts random playback.

JPEG files playback

You can play back JPEG files (still pictures) on a CD/CD-R/RW.

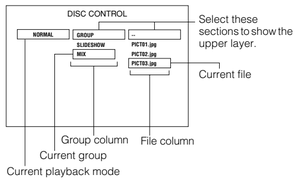
Precautions

- Use "ISO 9660" as the disc format.
- The player does not support "packet writing (UDF files)" discs.
- The player supports discs recorded with up to five multiple sessions.
- The player may be unable to play back a disc due to the characteristics or recording conditions.
- The player recognizes up to the fifth layer of groups, 999 files per group (including unplayable files), and up to 250 groups per disc.
- Add the appropriate extension (".jpg") to the file name.
- The player cannot play back a picture of more than 5120 x 3413 pixels (baseline JPEG) or 2048 x 1536 pixels (progressive JPEG).

Selecting a specific file or group

You can select files or folders (groups) using the Control display on the TV screen.

Control display



Press ▲/▼/◄/► to move the cursor bar to a desired file, then press ►(SELECT).

- When you press ENTER, only the selected file is played back.

Various playback mode

- To play back a disc continuously, select NORMAL.

Repeat playback

1. While stopped, press ▲/▼/◄/► to move the cursor bar to playback mode.
2. Press ENTER repeatedly to select the desired repeat mode.
 - REPEAT 1: Repeats the current file.
 - REPEAT GROUP: Repeats all files in the current group.
 - REPEAT ALL: Repeats all files on the disc.
3. Press ► to move the cursor bar to the file column, then press ►(SELECT).

Random playback

1. While stopped, press ▲/▼/◄/► to move the cursor bar to playback mode.
2. Press ENTER repeatedly to select RANDOM.
3. Press ► to move the cursor bar to the file column, then press ►(SELECT).

Program playback

1. While stopped, press ▲/▼/◄/► to move the cursor bar to playback mode.
2. Press ENTER repeatedly to select PROGRAM.
3. Press ▲/▼/◄/► to select the desired file, then press ENTER.
4. Repeat step 3 until all the desired files are selected.
 - To erase the last programmed file, press ◄ to move the cursor bar to the programmed files column, then press CANCEL.
5. Press ►(SELECT).

Various JPEG files playback

To zoom in a picture

Press ZOOM.
Each time you press ZOOM, you can magnify a JPEG file (x1.5/x2).

NOTE

This function is not available for some JPEG files depending on their resolution size and JPEG format.

To rotate/reflect a still picture

While a still picture is played back:

- Pressing ◄/► rotates the picture by 90°.
- Pressing ▲ reflects the picture vertically.
- Pressing ▼ reflects the picture horizontally.

To select a JPEG file from the thumbnail list

1. Press and hold THUMBNAIL/LIST while a JPEG file is selected on the Control display.
2. Press ▲/▼/◄/► to select the desired picture, then press ENTER.
 - You can change the page of thumbnail list by pressing I◄◄/►►I.

Slide show playback of JPEG files

Press ►(SELECT) while a JPEG file is selected on the Control display.

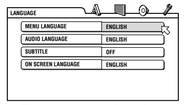
- To select slide show effect
 Press and hold ANGLE-SLIDE EFFECT until [SLIDE EFFECT MODE:] and the current mode appears on the TV screen.
 By pressing and holding the button repeatedly, you can select the effect from 11 effects, random effect selection (RAND), and no effect (NONE).
 The effect is not applied to progressive JPEG files.

Initial settings

You can change the settings of this player according to your preferences and playing environment.

How to set the Initial settings

1 **Press SET UP.**



2 **Press ◄/► to select the menu.**
3 **Press ▲/▼ to move to select the item.**
4 **Press ENTER.**
5 **Press ▲/▼ to select the options, then press ENTER.**

To dismiss a preference display

Press SET UP.

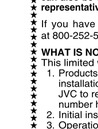
NOTES

- Some items in the menus cannot be changed during playback.
- If the upper and lower parts of the menu are cut off, adjust the picture size control of the TV.
- For settings of the LANGUAGE menu or the PARENTAL LOCK menu, see also the code lists on the right.
- Depending on the disc, the settings may not apply correctly.

LANGUAGE menu

Item	Contents
MENU LANGUAGE	You can select the default menu language of DVD VIDEO.
AUDIO LANGUAGE	You can select the default audio language of DVD VIDEO.
SUBTITLE	You can select the default subtitle language of DVD VIDEO.
ON SCREEN LANGUAGE	You can select "ENGLISH," "FRENCH," or "SPANISH" as the on-screen language.

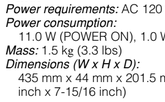
PICTURE menu

Item	Contents
MONITOR TYPE 	You can select the monitor type to match your TV when you play back DVD VIDEO discs recorded for wide-screen televisions. **[16:9] (Wide television screen):** For a wide-screen (16:9) TV. **[4:3 LB] (Letter Box conversion):** For a normal (4:3) TV. Displays a wide-screen picture to fit the width of the TV screen keeping the aspect ratio. **[4:3 PS] (Pan Scan conversion):** For a normal (4:3) TV. The picture is zoomed up to filling the screen vertically and the left and right sides of the picture are cut off.
PICTURE SOURCE	You can obtain optimal picture quality by selecting the source type of the disc contents. **[AUTO]:** Normally, select this option. The player recognizes the picture type (film or video source) of the current disc according to the disc information. **[FILM]:** For a film source disc. **[VIDEO(NORMAL)]:** For a video source disc with relatively a few movements. **[VIDEO(ACTIVE)]:** For a video source disc with relatively a lot of movements.
SCREEN SAVER	You can set the screen saver function to ON or OFF.
BACKGROUND	You can use your favorite image as the opening display. **[STANDARD]:** Display the JVC original image. **[USER]:** Display your favorite image as the opening display when a JPEG image is registered. **[SAVE AS BACKGROUND]:** To register a new image, select this while a JPEG image is displayed on the TV.

AUDIO menu

Item	Contents
DIGITAL AUDIO OUTPUT	Set this item correctly according to the logo on your receiver or decoder. **[PCM ONLY]:** Receiver/decoder bearing neither Dolby Digital nor DTS logo, or digital recorder. **[DOLBY DIGITAL/PCM]:** Receiver/decoder bearing Dolby Digital logo and no DTS. **[STREAM/PCM]:** Receiver/decoder bearing both Dolby Digital and DTS logos.
ANALOG DOWNMIX	Set this item properly according to your analog audio connection to play the sound of the surround multichannel audio on a DVD VIDEO. **[DOLBY SURROUND]:** Select this when connecting to a surround decoder. **[STEREO]:** Select this when connecting to a stereo amplifier or TV, or in case you want to record from a DVD VIDEO to a MiniDisc, cassette, etc.
D.RANGE CONTROL	Set this item to listen to DVD VIDEO recorded in Dolby Digital format at low or middle volume. **[WIDE RANGE]:** You can enjoy powerful playback sound. **[NORMAL]:** Normally, select this. **[TV MODE]:** Select this if the sound level of DVD VIDEO is lower than the one of TV program to make the sound at a lower volume clear.
OUTPUT LEVEL	Set this item to attenuate the level of the signal output from the analog AUDIO OUT terminals. If the sound from the speaker is distorted, select [LOW].

OTHERS menu

Item	Contents
RESUME	You can select the resume playback mode. **[ON]:** The player resumes playback from the position where playback has been stopped if the disc is still in the disc tray. **[OFF]:** This function is deactivated. **[DISC RESUME]:** The player resumes playback of the last 10 discs played. The player retains a memory of the stopped position of each disc even if the disc is removed from the disc tray.
ON SCREEN GUIDE	Activate or deactivate the on-screen guide.
AUTO STANDBY	Set the time until the player turns off (into standby) automatically if playback is stopped for more than 30 minutes or 60 minutes.
PARENTAL LOCK 	Select this item, then press ENTER to show the PARENTAL LOCK menu for limiting playback by children. Scenes which are limited by this function are not played or replaced with other scenes. **[COUNTRY CODE]:** Select the code of your country/area. **[SET LEVEL]:** Select the level of restriction. ("1" is the strictest.) **[PASSWORD]:** Enter your 4-digit password by pressing the numeric buttons (0 to 9). **[EXIT]:** Select this and press ENTER to go back to the OTHERS menu. **Notes:** • Some DVD VIDEO cannot be played by this function. If you try to play such a disc, the PARENTAL LOCK menu appears on the TV and asks whether you want to release the lock or not. To release the lock and play, select "TEMPORARY RELEASE," press ENTER, then enter your password. Otherwise, eject the disc. • To change the setting of the limitation, you need to enter your password. • If you forget your password, enter "8888."

Troubleshooting

Power

Power does not come on.
➡ Power plug is not inserted securely. Plug in securely.

Operation

"REGION CODE ERROR!" is shown on the TV.
➡ Region code of the inserted disc does not match the player. Check the region code of the disc jacket.

Operation is not possible.
➡ Microcomputer malfunction due to lightning or static electricity. Turn off the power and unplug the power cord, then connect the power cord again.
➡ Moisture condensation caused by a sudden change of temperature or humidity. Turn off the power, then turn it on a few hours later.
➡ The disc does not allow the operation, or an unplayable disc is inserted. Check and replace the disc.

[LOCK] is displayed on the display window and the disc tray does not open.
➡ When you press ⏏ while pressing down ■ on the player in standby mode, the tray lock function is activated. The disc tray cannot be opened or closed in this status. To release this status, press ⏏ while pressing down ■ on the player in standby mode.

Picture

Picture is noisy.
➡ The player is connected to a VCR directly and the copyguard function is activated. Connect the player so that the picture signal flows directly to the TV. With some discs, the picture may be blurred when [PICTURE SOURCE] is set to [FILM] or [AUTO]. Set [PICTURE SOURCE] to [VIDEO (NORMAL)] or [VIDEO (ACTIVE)].

Picture is distorted when using component (Y, PB, PR) or S-VIDEO jack(s).
➡ Both the component connection and S-video connection are made. Disconnect the unused one.

No picture is displayed on the TV screen or the screen is blurred or divided into two parts.
➡ The player is in the progressive scanning mode though it is connected to a TV via the VIDEO or S-VIDEO jack. Observe the display window. If [P] is turned on, the player is in the progressive scanning mode.
Make the Progressive scanning mode inactive by using the VFP - I/P button.

Audio

DVD VIDEO disc playback sound level is lower than TV broadcast sound level.
➡ Set the [D.RANGE CONTROL] preference to [TV MODE].

Analog audio output is distorted.
➡ Set the [OUTPUT LEVEL] preference to [LOW].

JPEG

No picture comes out.
➡ JPEG disc is recorded with the "packet writing (UDF file)." It cannot be played.
Check the files you want to play back.

Files are not played in the recorded order.
➡ This player plays the files in the alphabetic order. So, the playback order can vary.

Country/Area code list for Parental Lock

AD	Andorra
AE	United Arab Emirates
AF	Afghanistan
AG	Antigua and Barbuda
AI	Anguilla
AL	Albania
AM	Armenia
AN	Netherlands Antilles
AO	Angola
AQ	Antarctica
AR	Argentina
AS	American Samoa
AT	Austria
AU	Australia
AW	Aruba
AZ	Azerbaijan
BA	Bosnia and Herzegovina
BB	Barbados
BD	Bangladesh
BE	Belgium
BF	Burkina Faso
BG	Bulgaria
BH	Bahrain
BI	Burundi
BJ	Benin
BM	Bermuda
BN	Brunei Darussalam
BO	Bolivia
BR	Brazil
BS	Bahamas
BT	Bhutan
BV	Bouvet Island
BW	Botswana
BY	Belarus
BZ	Belize
CA	Canada
CC	Cocos (Keeling) Islands
CF	Central African Republic
CG	Congo
CH	Switzerland
CI	Côte d'Ivoire
CK	Cook Islands
CL	Chile
CM	Cameroon
CN	China
CO	Colombia
CR	Costa Rica
CU	Cuba
CV	Cape Verde
CX	Christmas Island
CY	Cyprus
CZ	Czech Republic
DE	Germany
DJ	Djibouti
DK	Denmark
DM	Dominica
DO	Dominican Republic
DZ	Algeria
EC	Ecuador
EE	Estonia
EG	Egypt
EH	Western Sahara
ER	Eritrea
ES	Spain
ET	Ethiopia
FI	Finland
FJ	Fiji
FK	Falkland Islands
FM	Micronesia (Federated States of)
FO	Faroe Islands
FR	France
FX	France, Metropolitan
GA	Gabon
GB	United Kingdom
GD	Grenada
GE	Georgia
GF	French Guiana
GH	Ghana
GI	Gibraltar
GL	Greenland
GM	Gambia
GN	Guinea
GP	Guadeloupe
GQ	Equatorial Guinea
GR	Greece
GS	South Georgia and the South Sandwich
GT	Guatemala
GU	Guam
GW	Guinea-Bissau
GY	Guyana
HK	Hong Kong
HM	Heard Island and McDonald Islands
HN	Honduras
HR	Croatia
HT	Haiti
HU	Hungary
ID	Indonesia
IE	Ireland
IL	Israel
IN	India
IO	British Indian Ocean Territory
IQ	Iraq
IR	Iran (Islamic Republic of)
IS	Iceland
IT	Italy
JM	Jamaica
JO	Jordan
JP	Japan
KE	Kenya
KG	Kyrgyzstan
KH	Cambodia
KI	Kiribati
KM	Comoros
KN	Saint Kitts and Nevis
KP	Korea, Democratic People's Republic of
KR	Korea, Republic of
KW	Kuwait
KY	Cayman Islands
KZ	Kazakhstan
LA	Lao People's Democratic Republic
LB	Lebanon
LC	Saint Lucia
LI	Liechtenstein
LK	Sri Lanka
LR	Liberia
LS	Lesotho
LT	Lithuania
LU	Luxembourg
LV	Latvia
LY	Libyan Arab Jamahiriya
MA	Morocco
MC	Monaco
MD	Moldova, Republic of
MG	Madagascar
MH	Marshall Islands
ML	Mali
MM	Myanmar
MN	Mongolia
MO	Macau
MP	Northern Mariana Islands
MQ	Martinique
MR	Mauritania
MS	Montserrat
MT	Malta
MU	Mauritius
MV	Maldives
MW	Malawi
MX	Mexico
MY	Malaysia
MZ	Mozambique
NA	Namibia
NC	New Caledonia
NE	Niger
NF	Norfolk Island
NG	Nigeria
NI	Nicaragua
NL	Netherlands
NO	Norway
NP	Nepal
NR	Nauru
NU	Niue
NZ	New Zealand
OM	Oman
PA	Panama
PE	Peru
PF	French Polynesia
PG	Papua New Guinea
PH	Philippines
PK	Pakistan
PL	Poland
PM	Saint Pierre and Miquelon
PN	Pitcairn
PR	Puerto Rico
PT	Portugal
PW	Palau
PY	Paraguay
QA	Qatar
RE	Réunion
RO	Romania
RU	Russian Federation
RW	Rwanda
SA	Saudi Arabia
SB	Solomon Islands
SC	Seychelles
SD	Sudan
SE	Sweden
SG	Singapore
SH	Saint Helena
SI	Slovenia
SJ	Svalbard and Jan Mayen
SK	Slovakia
SL	Sierra Leone
SM	San Marino
SN	Senegal
SO	Somalia
SR	Suriname
ST	Sao Tome and Principe
SV	El Salvador
SY	Syrian Arab Republic
SZ	Swaziland
TC	Turks and Caicos Islands
TD	Chad
TF	French Southern Territories
TG	Togo
TH	Thailand
TJ	Tajikistan
TK	Tokelau
TM	Turkmenistan
TN	Tunisia
TO	Tonga
TP	East Timor
TR	Turkey
TT	Trinidad and Tobago
TV	Tuvalu
TW	Taiwan
TZ	Tanzania, United Republic of
UA	Ukraine
UG	Uganda
UM	United States Minor Outlying Islands
US	United States
UY	Uruguay
UZ	Uzbekistan
VA	Vatican City State (Holy See)
VC	Saint Vincent and the Grenadines
VE	Venezuela
VG	Virgin Islands (British)
VI	Virgin Islands (U.S.)
VN	Vietnam
VU	Vanuatu
WF	Wallis and Futuna Islands
WS	Samoa
YE	Yemen
YT	Mayotte
YU	Yugoslavia
ZA	South Africa
ZM	Zambia
ZR	Zaire
ZW	Zimbabwe

Language codes list for the LANGUAGE menu

AA	Afar
AB	Abkhazian
AF	Afrikaans
AM	Ameharic
AR	Arabic
AS	Assamese
AY	Aymara
AZ	Azerbaijani
BA	Bashkir
BE	Byelorussian
BG	Bulgarian
BH	Bihari
BI	Bislama
BN	Bengali,Bangla
BO	Tibetan
BR	Breton
CA	Catalan
CO	Corsican
CS	Czech
CY	Welsh
DA	Danish
DZ	Bhutani
EL	Greek
EO	Esperanto
ET	Estonian
EU	Basque
FA	Persian
FI	Finnish
FJ	Fiji
FO	Faroese
FY	Frisian
GA	Irish
GD	Scots Gaelic
GL	Galician
GN	Guarani
GU	Gujarati
HA	Hausa
HI	Hindi
HR	Croatian
HU	Hungarian
HY	Armenian
IA	Interlingua
IE	Interlingue
IK	Inupiak
IN	Indonesian
IS	Icelandic
IW	Hebrew
JI	Yiddish
JW	Javanese
KA	Georgian
KK	Kazakh
KL	Greenlandic
KM	Cambodian
KN	Kannada
KO	Korean (KOR)
KS	Kashmiri
KU	Kurdish
KY	Kirghiz
LA	Latin
LN	Lingala
LO	Laothian
LT	Lithuanian
LV	Latvian, Lettish
MG	Malagasy
MI	Maori
MK	Macedonian
ML	Malayalam
MN	Mongolian
MO	Moldavian
MR	Marathi
MS	Malay (MAY)
MT	Maltese
MY	Burmese
NA	Nauru
NE	Nepali
NL	Dutch
NO	Norwegian
OC	Occitan
OM	(Afan) Oromo
OR	Oriya
PA	Panjabi
PL	Polish
PS	Pashto, Poshto
PT	Portuguese
QU	Quechua
RM	Rhaeto-Romance
RN	Kirundi
RO	Rumanian
RU	Russian
RW	Kinyarwanda
SA	Sanskrit
SD	Sindhi
SG	Sangho
SH	Serbo-Croatian
SI	Singhalese
SK	Slovak
SL	Slovenian
SM	Samoan
SN	Shona
SO	Somali
SQ	Albanian
SR	Serbian
SS	Siswati
ST	Sesotho
SU	Sundanese
SV	Swedish
SW	Swahili
TA	Tamil
TE	Telugu
TG	Tajik
TH	Thai
TI	Tigrinya
TK	Turkmen
TL	Tagalog
TN	Setswana
TO	Tongan
TR	Turkish
TS	Tsonga
TT	Tatar
TW	Twi
UK	Ukrainian
UR	Urdu
UZ	Uzbek
VI	Vietnamese
VO	Volapuk
WO	Wolof
XH	Xhosa
YO	Yoruba
ZU	Zulu

JVC®

LIMITED WARRANTY

ONLY FOR PRODUCT PURCHASED IN U.S.A. — USA ONLY

CONSUMER VIDEO 1-90

JVC COMPANY OF AMERICA (JVC) warrants this product and all parts thereof, except as set forth below ONLY TO THE ORIGINAL RETAIL PURCHASER to be FREE FROM DEFECTIVE MATERIALS AND WORKMANSHIP from the date of original purchase for the period shown below. ("The Warranty Period")

PARTS	LABOR
1 YR	90 DAYS

THIS LIMITED WARRANTY IS VALID ONLY IN THE FIFTY (50) UNITED STATES, THE DISTRICT OF COLUMBIA AND IN THE COMMONWEALTH OF PUERTO RICO.

WHAT WE WILL DO:

If this product is found to be defective within the warranty period, JVC will repair or replace defective parts with new or rebuilt equivalents at no charge to the original owner. Such repair and replacement services shall be rendered by JVC during normal business hours at JVC authorized service centers. Parts used for replacement are warranted only for the remainder of the Warranty Period. All products may be brought to a JVC authorized service center on a carry-in basis. Color televisions with a screen size of 27" or greater qualify for in-home service. In such cases, a technician will come to your home and either repair the TV there or remove and return it if it cannot be repaired in your home.

WHAT YOU MUST DO FOR WARRANTY SERVICE:

Please do not return your product to the retailer

Instead, return your product to the JVC authorized service center nearest you. If shipping the product to the service center, please be sure to package it carefully, preferably in the original packaging, and include a brief description of the problem(s). Please call 1-800-252-5722 to locate the nearest JVC authorized service center. Service locations can also be obtained from our website http://www.jvc.com. If your product qualifies for in-home service, the service representative will require clear access to the product.

If you have any questions concerning your JVC Product, please contact our Customer Relations Department at 800-252-5722

WHAT IS NOT COVERED:

This limited warranty provided by JVC does not cover:

1. Products which have been subject to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, or if repaired or serviced by anyone other than a service facility authorized by JVC to render such service, or if affixed to any attachment not provided with the products, or if the model or serial number has been altered, tampered with, defaced or removed;
2. Initial installation, installation and removal from cabinets or mounting systems.
3. Operational adjustments covered in the Owner's Manual, normal maintenance, video and audio head cleaning;
4. Damage that occurs in shipment, due to act of God, and cosmetic damage;
5. Signal reception problems and failures due to line power surge;
6. User Removal Memory Devices/Video Pick-up Tubes/CCD Image Sensors are covered for 90days from the date of purchase;
7. Accessories;
8. Batteries (except that Rechargeable Batteries are covered for 90 days from the date of purchase);
9. Products used for commercial purposes, including, but not limited to rental.
10. Loss of data resultant from malfunction of hard drive or other data storage device.

There are no express warranties except as listed above.

THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN.

JVC SHALL NOT BE LIABLE FOR ANY LOSS OF USE OF THE PRODUCT, INCONVIENCE, OR ANY OTHER DAMAGES, WHETHER DIRECT, INCIDENTAL OR CONSEQUENTAL (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPES, RECORDS OR DISCS) RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE WARRANTY PERIOD SET FORTH ABOVE.

Some states do not allow the exclusion of incidental or consequential damages or limitations on how long an implied warranty lasts, so these limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

JVC COMPANY OF AMERICA
DIVISION OF JVC AMERICAS CORP.
1700 Valley Road
Wayne, NJ 07470
http://www.jvc.com

REFURBISHED PRODUCTS CARRY A SEPARATE WARRANTY, THIS WARRANTY DOES NOT APPLY. FOR DETAIL OF REFURBISHED PRODUCT WARRANTY, PLEASE REFER TO THE REFURBISHED PRODUCT WARRANTY INFORMATION PACKAGED WITH EACH REFURBISHED PRODUCT.

For customer use:

Enter below the Model No. and Serial No. which is located either on the rear, bottom or side of the cabinet. Retain this information for future reference.

Model No. :
Serial No. :
Purchase date :
Name of dealer :

TO OUR VALUED CUSTOMER

THANK YOU FOR PURCHASING THIS JVC PRODUCT.

WE WANT TO HELP YOU ACHIEVE A PERFECT EXPERIENCE.

NEED HELP ON HOW TO HOOK UP?
NEED ASSISTANCE ON HOW TO OPERATE?
NEED TO LOCATE A JVC SERVICE CENTER?
LIKE TO PURCHASE ACCESSORIES?

JVC® IS HERE TO HELP!

TOLL FREE: 1(800)252-5722

http://www.jvc.com

Remember to retain your Bill of Sale for Warranty Service.

Do not attempt to service the product yourself

Caution

To prevent electrical shock, do not open the cabinet.
There are no user serviceable parts inside.
Please refer to qualified service personnel for repairs.

BT-51005-9
(0904)

Specifications

Specifications and appearance are subject to change without prior notice.

General

Readable discs:
DVD VIDEO, DVD-R (Video format), DVD-RW (Video format), SVCD, Video CD, Audio CD (CD-DA), CD-R/RW (CD-DA, SVCD, Video CD, JPEG)
Video format: NTSC, 480i/480p selectable

Other

Power requirements: AC 120 V ∼, 60 Hz
Power consumption:
11.0 W (POWER ON), 1.0 W (STANDBY mode)
Mass: 1.5 kg (3.3 lbs)
Dimensions (W x H x D):
435 mm x 44 mm x 201.5 mm (17-3/16 inch x 1-3/4 inch x 7-15/16 inch)

Video outputs

Component (pin jacks)
Y Output: 1.0 Vp-p (75 Ω)
PB/PR Output: 0.7 Vp-p (75 Ω)
VIDEO (pin jack): 1.0 Vp-p (75 Ω)
S-VIDEO (S jack)
Y Output: 1.0 Vp-p (75 Ω)
C Output: 286 mVp-p (75 Ω)
Horizontal resolution: 500 lines or more

Audio outputs

ANALOG OUT (pin jack): 2.0 Vrms (10 kΩ)
DIGITAL OUT (COAXIAL): 0.5 Vp-p (75 Ω termination)

Audio characteristics

Frequency response
CD (sampling frequency 44.1 kHz): 2 Hz to 20 kHz
DVD (sampling frequency 48 kHz):
2 Hz to 22 kHz(4 Hz to 20 kHz for DTS and Dolby Digital bitstream signals)
DVD (sampling frequency 96 kHz): 2 Hz to 44 kHz
Wow and flutter: Unmeasurable (less than ± 0.002%)
Total harmonic distortion: less than 0.009%